FIRST ARTICLE REQ			1. DATE								
(AFMCI 64-110, AFMCI 23-102 AND FAR Part 9, Sub	on page 3) 4. NSN	19 Jul 04									
2. PR/MIPR NUMBER 3. PART NUMBE	MIPR NUMBER 3. PART NUMBER 4071047CLE										
5. FIRST ARTICLE QUANTITY											
THE FIRST ARTICLE IS 3 UNIT(S) (OF LOT/ITEM	1									
AND WILL BE: PART OF PRODUCTION QUANTITY	X	N ADDITION TO	PRODUCTION QUANT	TITY							
6. ARTICLES	7. LONG LI	EAD TIME ITEMS	3								
WILL X WILL NOT SERVE AS MANUFACTU	JRING	REQUIRED	X	NOT REQUIRED							
STANDARD		(See F	FAR 52.209-3 or -4, a	Iternate II)							
8. SPECIAL REQUIREMENT/PRODUCTION FACILITIES (See FAR 52,20)	9-3 or -4 Alternate II		· · · · · · · · · · · · · · · · · · ·								
X REQUIRED		NO	T REQUIRED								
"The First Article offered must be manufactured at the facilities in	which that item is to	be produced und	er contract, or if the F	irst Article is a							
	"The First Article offered must be manufactured at the facilities in which that item is to be produced under contract, or if the First Article is a component not manufactured by the contractor, such component must be manufactured at the facilities in which the component is to be produced										
for the contract. A certification to this effect must accompany e 9. TEST/INSPECTION REQUIREMENTS		is offered." RTICLE DELIVER	v.								
9. TEST/INSPECTION REQUIREMENTS	F. FIRST A	KIICLE DELIVER	τ:								
A. X CONTRACTOR TESTING GOVERNMENT TESTI	NG (1) Due	within	calendar day	s from date of contract.							
Performance or other characteristics which the First Articles must r	neet (2) Noti	fy	calendar days prid	or to shipment.							
are identified in drawing 4071047 and specifications	(3) Deli	vered to governn	nent at								
identified therein.											
B. The detailed technical requirements for First Article approval tests a	re										
contained in Block 12 of this form and LPF-OAR-003.		(\$6	et Forth Consignee and	d Address)							
		,50	or y or an odnorgnos and	, , , , , , , , , , , , , , , , , , , ,							
(Cite Spec and Para number)	(4) Gov	ernment written	notice of approval/disa	approval within							
C. X TEST PLAN REQUIRED	_	days after i	receipt of first article p	ackage.							
(1) DD Form 1423 ELIN <u>A001</u>											
(2) Delivery due 30 calendar days from date of contract.	G. Estimat	ed cost of gover	nment testing/inspecti	on evaluation.							
(3) Number of days for government approval/disapproval 45	\$ <u>50</u>	0									
days.											
D. Contractor's notification to ACO and(Requesting Activity,	-										
of test time and location due 10 days prior to start of testing											
E. X TEST REPORT REQUIRED											
(1) DD Form 1423 ELIN A002											
											
•	4-										
(3) Forward to PCO and OC-ALC/ENRS, 3001 Staff Dr., Sui											
2AH66B, Tinker AFB, OK 73145-3036 Attn: FA Mon											
(4) Government written notice of approval/disapproval due	60_										
days after receipt of contractor's report.											
10. DISPOSITION OF FIRST ARTICLES		6. 15.	to a Australia de 101 hairean								
X Approved First Articles will be forwarded to		i`		urned to the contractor/							
Air Force Supply.			retained by								
		disposition ins	structions from the cor	ntractor.							
X 1 (insert quantity) First Articles will be expended in to	esting.	On nurchase r	equests designated as	direct shipments, the							
<u> </u>	vill be	•		OTE: Always applicable on							
returned to the contractor/ will be retained by			ry Sales (FMS)).	• • •							
pending disposition instructions	from	a. Approved	First Articles will be re	turned to the contractor for							
the contractor.		-	production item.								
First Articles will be installed on aircraft/equipment to deter	mine			Articles will remain the							
Proper fit/function. Approved article will remain on the		same as mark	ed above.								
aircraft/equipment and will not be forwarded to USAF Supp	oly, but	Other Disposi	tion: See Block 12 of	this Form.							
will be considered part of the contract quantity.	_ _										

2. PR/MIPR NUMBER	3. PART NUMBER 4071047 0	4. NSN 7CLE 5365-01-342-4818							
11. CONDITION(S) FOR WAIVER OF FIRST ARTICL			AAA						
a. X Offerors who have previously furnis X Government, X D		ne same or similar article to	the prime contractor for delivery to the						
b. Offerors currently in production of the same or similar article for a Government, DoD, Air Force contract and who have received First Article approval under the existing contract.									
c. X Offerors who have previously furnished production quantities of the same or similar article to the X Government, X DoD, X Air Force, provided articles thus furnished, have exhibited satisfactory performance in service in the opinion on the Air Force.									
d. X Provided not more than 36 months have elapsed since completion of the contract.									
e. First Article testing will not be waive	ed.								
f. X See Remarks in block 12 below.									
HAS EXHIBITED SATISFACTORY PERFOR THE DECISION. The buyer must solicit du FURNISH THE COGNIZANT ENGINEER AC	MANCE IN SERVICE AND PRE all prices that is, both with and TIVITY WITH THE FOLLOWIN	EPARE AND RETAIN SUPPO d without requirement for the IG INFORMATION ON THE	PREVIOUSLY SUPPLIED ARTICLE:						
A. PROCURING OFFICE B. CON	TRACT NUMBER C.	DATE OF CONTRACT	D. SPECIFICATION NUMBER AND REVISION						
12. REMARKS									
9.B. First article test requirements shall be p	er LPF-QAR-003 and the f	ollowing:							
 All three first articles shall be inspect of LPF-QAR-003. 	ed in accordance with the r	equirements of paragrap	hs 3.1, 3.2, 3.3, 3.4, and 3.5						
b. After completion of inspections per 9 the requirements of paragraph 3.6 of	B.a above, one article shal LPF-QAR-003.	ll be destructively tested	evaluated in accordance with						
10. Disposition of first Articles:									
 a. Approved first article(s) will be retain the same as for production items. If a acceptance. 	ned at the contractor's facil a first article is expended in	ity for reconditioning (if testing, approval of firs	necessary) with final acceptance tarticle will constitute						
b. Disapproved first article(s) shall be									
11. The cognizant Government engineering authority shall be the final authority for determining if a contractor meets the conditions of waiver identified in 11.a or 11.c.									
First article testing is waived if the offer									
This is a critical part used in the F100 series turbine engine. Poor quality parts will have an adverse effect on mission capability and system safety. For this reason, First Article Testing is required to insure first time manufacturers or manufacturers that have not produced the item within three years manufacture parts in accordance with the drawing and specification requirements.									
13. COGNIZANT ENG ORGANIZATION RESPONS		14. PR INITIATOR (Name	, Organization, Phone)						
AND/OR APPROVING TEST (Name, Organization,	Phone)								
Jolly C. Sartor, Jr, OC-ALC/LPFRB, (4	14 Julu4 19 Julu4								

CONTRACT DATA REQUIREMENTS LIST

DD FORM 1423-1, AUG 96 (EG)

(1 Data Item)

Form Approved OMB No. 0704-0188

Page 1 of 1 Pages

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provisions of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer

A. CONTRACT L	NTRACT LINE ITEM NO. B. EXHIBIT C. CATEGORY:										
D. SYSTEM/ITEM	M/ITEM E. CONTRACT/PR NO. F. CONTRACTOR										
1. DATA ITEM NO.	2. TITLE OF DATA ITE	ATA ITEM 3. SUBTI					LE N: Spacer - Ring	17. PRICE GROUP			
!							N: 5365-01-342-481				
	Acquisition Document No -NDTI-80809	0.)	5. CONTRACT RE	FERENCE			6. REQUIRING OFFICE				18. ESTIMATED TOTAL PRICE
7. DD 250 REQ	9. DIST STATEMENT	10. FREQUI	ENCY	12. DAT	TE OF FIRST SUBI	VISSION	14. DIST				
YES	REQUIRED		ONCE SEE BLOCK 16					b.	COPIES	inal	
8. APP CODE	A	11. AS OF	DATE BLOCK 16	13. DATE OF SUBSEQUENT SUBMISSION			a. ADDRESSEE	Draft			
16. REMARKS	<u> </u>	SEE	BLOCK 10	l							
Contractor sha	ll provide a plan	that ensu	res all drawing	g requi	rements are	met					
for each first a	rticle submitted.	The plan	shall include	the equ	aipment and						
facilities used address the following	to verify all draw lowing:	ing requi	rements. As a	a minin	num, the plan	n shall					
	drawing dimensi			a ta ba	inamastad a	nd			<u> </u>		
the equipment	to be used to ver	ifv each o	limension, sur	face te	xture, etc. A	ın				 	
	shall be submitte										
drawing to tho	se identified on t	he list.							ļ	ļ	
b. A plan to ve	erify that all non-	destructi	ve inspections	are me	et.						
c. A plan to ve	erify that all visua	al inspect	ions requirem	ents ar	e met.						
d. A plan to verify material properties to include mechanical properties, metallurgical properties, and chemical compositions.											
e. A plan to ensure that manufacturing processes are performed by sources that are currently approved/certified by the OEM (PWA) or the CEA (OC-ALC/LPFR).						ΈA					
f. A plan to ensure that the forging or casting sources are currently approved/certified by the OEM (PWA) or the CEA (OC-ALC/LPFR), if this is applicable.						his					
Additional guidelines for first article test plans are contained in LPF-QAR-003.						R-003.				ļ	
The test plan must be approved by OC-ALC/LPFR prior to delivery of test report as required by the contract.											
The test plan shall be received by the PCO no later than 30 calendar days after contract award date.											
											1
											-
								-			1
							15. TOTAL]
G. PREPARED B	y on Friesenhahn		H. DATE 7 Jul ()4	I. APPROVE Jolly Sa			J. DA 7 J	TE ul 04		

PREVIOUS EDITION MAY BE USED.

CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved OMB No. 0704-0188

The public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports (0701-0188), 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302. Respondents should be aware that notwithstanding any other provisions of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to the above address. Send completed form to the Government Issuing Contracting Officer

A. CONTRACT L	INE ITEM NO.	B. EXHIB	IT	C. CATEGORY: TDP TM OTHER								
D. SYSTEM/ITEM 4071047CLE			E. CONTRACT/PR NO.			F. CONTRACTOR						
1. DATA ITEM NO.	2. TITLE OF DATA ITE			3. SUBTITLE NOUN: Spacer - Ri				_	17. PRICE GROUP			
A002	FIR	RST ART	ST ARTICLE TEST REPORT NSI				N: 5365-0		8			
4. AUTHORITY (Data Acquisition Document No.) DI-NDTI-80809 5. CONTRACT REFERENCE							6. REQUIRING	OFFICE			18. ESTIMATED TOTAL PRICE	
7. DD 250 REQ	9. DIST STATEMENT	10. FREQUENCY		12. DATE OF FIRST SUBMISSION		MISSION	14. DIST		BUTION			
YES	REQUIRED	0	ONCE	SEE BLOCK 10			a. ADDRESS		b.	COPIES		
8. APP CODE]	11. AS OF I	DATE		13. DATE OF SUBSEQUENT SUBMISSION			DORESSEE	Draft		inal	
	A	SEE I	BLOCK 16						1	Reg	Repro	
Test Plan. All visual inspection material requirements perform signification (PWA) or the Communicature the representative Additional guidents.	le Test Report shadrawing requirer ons, non-destruct rements. The test icant manufacturicEA (OC-ALC/I re First Articles smust coordinate of the Test Report shadricle Test Plan	ments musive inspect report shing process. LPFR). A hall be into the Test Report all be received.	st be satisfied ctions, manufarall indicate the sees are approaced to the period of th	includir acturing at any s ved/cer process report.	ng dimension processes a sources used tified by the sheets used A Government of C-QAR-003.	ons, and I to e OEM to nent						
							15. TOTAL					
G. PREPARED BY Aai	y ron Friesenhahn	1	H. DATE 7 Jul (04	I. APPROVE Jolly Sai		•		J. DA	TE ul 04		



LPF-QAR-003 LPFR QUALITY ASSURANCE REQUIREMENTS FOR FIRST ARTICLE TEST PLANS & REPORTS



- 1. This document provides guidelines for the preparation of first article test plans/test reports for F100 engine parts where referenced within the first article data of a contract.
- 2. FIRST ARTICLE QUANTITY. The quantity of first articles shall be per the contract. The quantity of articles allowed for destructive testing, in accordance with the contract, shall be tested per the first article procedure in its entirety, to include the destructive testing. The remaining articles shall only be tested per the nondestructive portions of the procedure.
- 3. TESTING REQUIREMENTS.
 - 3.1. Testing shall consist of, but shall not be limited to, the verification of the following.
 - 3.1.1. Dimensional conformance including finish requirements.
 - 3.1.2. Conformance to non-destructive inspection requirements (FPI, Ultra-sonic, Eddy Current, X-ray, visual)
 - 3.1.3. Conformance of material properties to include mechanical, metallurgical and chemical.
 - 3.1.4. Conformance to other required processes, specifications, and standards listed on the drawing including sub-tier specifications and standards, special requirements as described in the engineering instructions (EI), quality plans, etc.
 - 3.2. First articles shall be serialized. Serial Numbers are to be identified prior to commencement of testing unless otherwise specified.
 - 3.3. Dimensional Inspection.
 - 3.3.1. All dimensions, as listed on the assembly drawing and detail drawings, to include drawing notes, shall be measured where possible on all first articles 100% (no sampling allowed).
 - 3.3.2. A tabular format shall be used with drawing dimension, tolerance, measurement, and instrument/gage/tooling/serial number used.
 - 3.3.3. All tooling and gaging used for inspection and acceptance/rejection of first articles shall have calibrations from a laboratory traceable to NIST and in

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accordance with ISO 10012-1 (formerly MIL-STD-45662), listed in a (tooling & gaging table) table, table shall include nomenclature, serial number, calibration frequency, next calibration date, range, least increment, and accuracy. Listing shall also include alignment tools and constraint fixtures.

- 3.3.4. Inspection results shall be presented in a table showing the feature measured, dimension and tolerance, actual reading and gage serial number used.
- 3.4. Nondestructive Inspections (NDI), including Fluorescent Penetrant Inspections (FPI), Ultrasonic Testing (UT), Eddy Current (EC), Radiographic Testing (x-ray), and visual inspections, shall comply with LPR-QPR-018 and meet the following:
 - 3.4.1. All first articles shall receive 100% of the inspections identified on the QAD. Sampling shall not be allowed.
 - 3.4.2. NDI shall be per the applicable specification(s).
 - 3.4.3. Sources used shall be Pratt & Whitney approved per the OC-ALC/LPFR letter granting source approval to the contractor.
 - 3.4.4. NDI results shall be presented in a table showing the feature inspected, acceptance/rejection criteria used, results and gage/master serial number used. In cases where photographic standards within a VIS specification are applied to an NDI, the inspection report shall include a copy.
 - 3.4.5. Inspection Masters/Transfer Masters shall have current calibrations. A copy of the calibration(s) shall be included into the report.
 - 3.4.6. Level III or Level II inspectors, as applicable, shall be required. A copy of the inspector's certification(s) shall be included into the report.
- 3.5. Visual Inspections shall include:
 - 3.5.1. Specific visual inspections per a Pratt & Whitney Visual Inspection Standard (VIS) document shall be called out of the applicable VIS and cited as specific inspections.
 - 3.5.2. Visual inspection results shall be presented in a table showing the feature inspected, acceptance/rejection criteria used, results, and gage/master serial number used (as applicable).
 - 3.5.3. In cases where photographic standards within the VIS are used, the inspection report shall include a copy.

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- 3.6. Material properties testing shall include mechanical properties, metallurgical properties, and chemical composition tests, as applicable, per the material specifications and the following:
 - 3.6.1. Composition, heat treat condition, and other characteristics/properties, as listed in the technical requirements section, acceptance section, and/or quality sections of the specification(s) so as to verify that the materials and processes are sound, clean, and free of imperfections detrimental to the performance of the part or assemblies.
 - 3.6.2. In some cases a material suppliers certification will not be sufficient and the Contractor shall have redundant testing performed.
 - 3.6.3. Metallurgical microanalysis, as applicable, for raw materials, welds, brazings, and coatings shall be conducted. Results shall include the complete laboratory report including photomicrographs.
 - 3.6.4. Mechanical testing, as applicable, per manufacturing specifications and the drawing(s).
 - 3.6.5. In cases where the applicable specifications require test reports, these shall accompany the First Article Test Report (FATR).

4. SUBMITTAL.

- 4.1. The First Article Test Plan (FATP) shall be delivered to the Contracting Officer in accordance with the schedule as listed in the contract, or Form DD1423. The FATP shall provide a detailed description of specific testing instructions to be used. Generalized instructions will not be acceptable.
- 4.2. The First Article Test Report (FATR) shall be delivered to the Contracting Officer in accordance with the schedule as listed in the contract, or Form DD1423. All laboratory test results, including those resultant from testing conducted at the contractor's facility and including sub-vendor testing, shall be provided with the FATR in their complete form as provided by the testing laboratory(ies).

5. DISPOSITION OF PARTS.

- 5.1. When required by the contract, the remnants from destructive testing shall be delivered with the First Article Test Report.
- 5.2. When required by the contract and following the completion of non-destructive testing, one article shall be delivered to the Contracting Officer and packaged in accordance with contract requirements. Marking on the package shall be

LPF-QAR-003 Issue Date: 8 Oct 2002 Rev.: E **UNSERVICEABLE - Condition Code "R"**. Deliver this part with the First Article Test Report. The other(s) shall be handled in accordance with the contract.

6. GENERAL REQUIREMENTS.

- 6.1. All First Articles and all Production Articles shall be fabricated from material whose metallurgical state is in compliance with the drawing requirements, as well as all sub-tier specifications and standards referenced therein.
- 6.2. All First Articles and all Production Articles shall be new manufactured under this contract. No items manufactured under previous contracts shall be delivered without approval.
- 6.3. The subcontractors previously identified by the contractor as sources to be employed, to include laboratory testing, shall be the only sources used. If the contractor wishes to employ a subcontractor other than previously identified, they shall substantiate that the new source is OEM approved for the specific testing required. A change in the address of a source shall be construed as a change of source. Employment of alternate sources shall only be authorized by OC-ALC/LPFR.

Engineering Instructions shall take precedence over all other technical instructions.

GRIZELDA LOY-KRAFT, Chief F100 Engineering Source Approval

Fighter Propulsion Division Propulsion Directorate